In the Claims

1. (Currently Amended) A machine structural steel product provided with superior formability of rotary-forming, quenching-crack resistance, and torsional properties, comprising: on a mass percent basis,

C: 0.35% to 0.50%;

Si: 0.15% or less more than 0.05 to 0.15%;

Mn: 0.20% to 1.1%;

P: 0.02% or less;

S: 0.005% to 0.035%;

Cr: more than 0.1% to 0.2%;

Mo: 0.05% to 0.5%;

Ti: 0.01% to 0.05%;

Al: 0.01% to 0.05%;

N: 0.01% or less;

B: 0.0005% to 0.0050%;

Cu: 0.06% to 0.25%; and

Ni: 0.05% to 0.2%,

wherein an LD value represented by the following equation (1) of 120 or less is satisfied, and the balance of the composition includes Fe and inevitable impurities, with a texture composed of more than 5 to 30% of a bainite phase on an area percent basis:

nate

where C, Mn, P, S, Si, Cr, Ni, Mo, and Cu in the equation each indicate the content (mass percent) of the respective elements.

2. (Currently Amended) The machine structural steel product-having superior formability of rotary forming, quenching crack resistance, and torsional properties, according to Claim 1, further comprising: on a mass percent basis,

V: 0.01% to 0.30%, and

Nb; 0.005% to 0.05%.

3. (Original) A drive shaft comprising the machine structural steel product according to Claim 1 or 2, wherein a hardened layer is provided thereon by performing induction hardening and tempering.